

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY	USSR (Moscow Oblast)	REPORT NO.	<input type="text"/> 25X1A
SUBJECT	Production of Lead Sulfide Cells at Zavod 393, Krasnogorsk	DATE DISTR.	13 July 1953
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THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
THE APPRAISAL OF CONTENT IS TENTATIVE.
(FOR KEY SEE REVERSE)

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SOURCE

Source never saw, heard of, or has any evidence of a lead sulfide cell's having been produced at Zavod 393. In the laboratory of Dr. Goerlich, source saw what he took for several lead sulfide cells in various stages of construction. He emphasized that these were experimental cells, if they were PbS cells. They were double-walled glass containers about 12 to 14 cm long. The inner tube was about 2 cm in diameter, while the outer one was 3 to 3.5 cm in diameter. There was a Dewar seal at one end. An electrical conducting strip was painted along either the inner or outer wall of the inside tube, ending at an electrical lead at what source assumes was to be the upper end. There was a second electrical lead at this end, but source does not recall how it was connected or the exact location. The lower end, or flat surface, of the outer tube was opaque with a square, clear window about 10 mm on a side. The lower end of the inner tube was coated with a substance which source says was PbS. He does not know whether the PbS was on the inside or outside of the inner tube. Source knew that Dr. Goerlich was working on experimental PbS tubes from discussions with persons in Goerlich's group. These tubes were processed by baking them in an unevacuated state in an extremely primitive fashion. They were placed on an asbestos pad and surrounded with an asbestos cylinder containing a heating element. They were baked at 650° for 20 minutes. These were experimental cells and not production cells. Source never saw a completed cell and cannot say whether either a PbS experimental or production cell ever was completed.

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